

Circles

P_i

C - circumference
d - diameter

4/12/12

π

$$P_i = \frac{C}{d}$$

3.14

$\frac{22}{7}$

$$C \approx 3 \cdot d$$

$$d \approx \frac{1}{3} C$$

Chord - line w/
end points on
the circle

diameter - chord
that goes through
center of circle

Estimate Circumference:

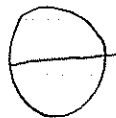
ex. 1



$$d = 9 \text{ in}$$

$$C \approx 27 \text{ in}$$

ex. 2



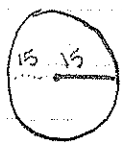
$$C = 30 \text{ in}$$

$$d = \frac{1}{3} \cdot 30$$

$$\approx 10 \text{ in}$$

ex. 3

IF:



$$r = 15 \text{ cm}$$

$$d = 2(r)$$

$$d = 2 \cdot 15$$

$$30$$

r = radius

$$d = 2r$$

then

$$3 \cdot 30 \approx 90_{\text{cm}} - \text{approximate circumference}$$

$$C = \pi \cdot d \text{ or } C = \pi \cdot 2r$$

$$2\pi r \quad \nearrow \text{same}$$

You can use 3.14 or $\frac{22}{7}$ for π .